

## SEQUENCE LISTING

&lt;110&gt; LEDERMAN, et al. Dr., Seth

&lt;120&gt; ISOLATED FRAGMENTS OF p62 NUCLEOPORIN AND USES THEREOF

&lt;130&gt; Columbia University Sequence Listing

&lt;140&gt;

&lt;141&gt;

&lt;160&gt; 2

&lt;170&gt; PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 393

&lt;212&gt; PRT

&lt;213&gt; Saccharomyces cerevisiae

&lt;400&gt; 1

Met Ser Gly Phe Asn Phe Gly Gly Thr Gly Ala Pro Thr Gly Gly Phe  
 1 5 10 15

Thr Phe Gly Thr Ala Lys Thr Ala Thr Thr Thr Pro Ala Thr Gly Phe  
 20 25 30

Ser Phe Ser Thr Ser Gly Thr Gly Gly Phe Asn Phe Gly Ala Pro Phe  
 35 40 45

Gln Pro Ala Thr Ser Thr Pro Ser Thr Gly Leu Phe Ser Leu Ala Thr  
 50 55 60

Gln Thr Pro Ala Thr Gln Thr Thr Gly Phe Thr Phe Gly Thr Ala Thr  
 65 70 75 80

Leu Ala Ser Gly Gly Thr Gly Phe Ser Leu Gly Ile Gly Ala Ser Lys  
 85 90 95

Leu Asn Leu Ser Asn Thr Ala Ala Thr Pro Ala Met Ala Asn Pro Ser  
 100 105 110

Gly Phe Gly Leu Gly Ser Ser Asn Leu Thr Asn Ala Ile Ser Ser Thr  
 115 120 125

Val Thr Ser Ser Gln Gly Thr Ala Pro Thr Gly Phe Val Phe Gly Pro  
 130 135 140

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Ser Thr Thr Ser Val Ala Pro Ala Thr Thr Ser Gly Gly Phe Ser Phe
145                      150                      155                      160
:
Thr Gly Gly Ser Thr Ala Gln Pro Ser Gly Phe Asn Ile Gly Ser Ala
                      165                      170                      175

Gly Asn Ser Ala Gln Pro Thr Ala Pro Ala Thr Leu Pro Phe Thr Pro
                      180                      185                      190

Ala Thr Pro Ala Ala Thr Thr Ala Gly Ala Thr Gln Pro Ala Ala Pro
                      195                      200                      205

Thr Pro Thr Ala Thr Ile Thr Ser Thr Gly Pro Ser Leu Phe Ala Ser
                      210                      215                      220

Ile Ala Thr Ala Pro Thr Ser Ser Ala Thr Thr Gly Leu Ser Leu Cys
225                      230                      235                      240

Thr Pro Val Thr Thr Ala Gly Ala Pro Thr Ala Gly Thr Gln Gly Phe
                      245                      250                      255

Ser Leu Lys Ala Pro Gly Ala Ala Ser Gly Thr Ser Thr Thr Thr Ser
                      260                      265                      270

Thr Ala Ala Thr Ala Thr Ala Thr Thr Thr Thr Ser Ser Ser Thr Thr
                      275                      280                      285

Gly Phe Ala Leu Asn Leu Lys Pro Leu Ala Pro Ala Gly Ile Pro Ser
290                      295                      300

Asn Thr Ala Ala Ala Val Thr Ala Pro Pro Gly Pro Gly Ala Ala Ala
305                      310                      315                      320

Gly Ala Ala Ala Ser Ser Ala Met Thr Tyr Ala Gln Leu Glu Ser Leu
                      325                      330                      335

Ile Asn Lys Trp Ser Leu Glu Leu Glu Asp Gln Glu Arg His Phe Leu
                      340                      345                      350

Gln Gln Ala Thr Gln Val Asn Ala Trp Asp Arg Thr Leu Ile Glu Asn
                      355                      360                      365

Gly Glu Lys Ile Thr Ser Leu His Arg Glu Val Glu Lys Val Lys Leu
                      370                      375                      380

Asp Gln Lys Arg Leu Asp Gln Glu Leu
385                      390

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&lt;210&gt; 2

&lt;211&gt; 187

&lt;212&gt; PRT

<213> *Saccharomyces cerevisiae*

&lt;400&gt; 2

Leu Ile Asn Lys Trp Ser Leu Glu Leu Glu Asp Gln Glu Arg His Phe  
 1 5 10 15

Leu Gln Gln Ala Thr Gln Val Asn Ala Trp Asp Arg Thr Leu Ile Glu  
 20 25 30

Asn Gly Glu Lys Ile Thr Ser Leu His Arg Glu Val Glu Lys Val Lys  
 35 40 45

Leu Asp Gln Lys Arg Leu Asp Gln Glu Leu Asp Phe Ile Leu Ser Gln  
 50 55 60

Gln Lys Glu Leu Glu Asp Leu Leu Ser Pro Leu Glu Glu Leu Val Lys  
 65 70 75 80

Glu Gln Arg Ala Thr Ile Tyr Leu Gln His Ala Asp Glu Glu Arg Gln  
 85 90 95

Lys Thr Tyr Lys Leu Ala Glu Asn Ile Asp Ala Gln Leu Lys Arg Met  
 100 105 110

Ala Gln Asp Leu Lys Asp Ile Ile Glu His Leu Asn Thr Ser Gly Ala  
 115 120 125

Pro Ala Asp Thr Ser Asp Pro Leu Gln Gln Ile Cys Lys Ile Leu Asn  
 130 135 140

Ala His Met Asp Ser Leu Gln Trp Ile Asp Gln Asn Ser Ala Leu Leu  
 145 150 155 160

Gln Arg Lys Val Glu Glu Val Thr Lys Val Cys Val Gly Arg Arg Lys  
 165 170 175

Glu Gln Glu Arg Ser Phe Arg Ile Thr Phe Asp  
 180 185

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